

Supplementary Material

Supplementary Table 1. Percentage of plant species showing each pollination system in Neotropical savanna communities

| Pollination systems | Plant species (%) | | |
|----------------------------|---|--------------------|------------|
| | Gottsberger and Silberbauer-Gottsberger, 2006 | Tunes et al., 2017 | This study |
| Generalist-pollination | 42.5 | 41.7 | 14.8 |
| Bee-pollination | 43.7 | 38.3 | 55.5 |
| Beetle-pollination | 3.1 | 5.0 | 2.5 |
| Hummingbird-pollination | 1.9 | 5.0 | 9.9 |
| Butterfly-pollination | 1.1 | 6.7 | 9.9 |
| Moth-pollination | 2.3 | 0.0 | 0.0 |
| Hawkmoth-pollination | 2.7 | 1.7 | 2.5 |
| Fly-pollination | 1.5 | 0.0 | 1.2 |
| Bat-pollination | 1.1 | 1.7 | 3.7 |
| Total | 100.0 | 100.0 | 100.0 |

Supplementary Table 2. List of the 80 sampled plant species from Neotropical savanna with their respective UV categories, pollination system, types of resources collected by pollinators and attraction units (based on Ramirez et al., 1990). R = UV-reflecting, CM = contrasting markings in the corolla oriented towards floral resources, CR = contrasting reproductive structures, A = UV-absorbing, BE = bullseye, P = Pollen, T = Tissue, N = Nectar, O = Oil.

| Species | UV-categories | Pollination system | Floral resources | Attraction unit | Non-UV pattern |
|--|---------------|--------------------------------|-------------------|-----------------|----------------|
| Amaranthaceae | | | | | |
| <i>Gomphrena macrocephala</i> A.St.-Hil. | A | Generalist | P, N | Inflorescence | Present |
| Annonaceae | | | | | |
| <i>Annona coriacea</i> Mart. | CR | Cantharophily ^{a, b} | P, T ^c | Flower | Present |
| Apocynaceae | | | | | |
| <i>Mandevilla longiflora</i> (Desf.) Pichon | A | Sphingophily ^d | N ^d | Flower | Present |
| <i>Mandevilla pohliana</i> (Stadelm.) A.H.Gentry | A | Melittophilous ^a | N ^c | Flower | Present |
| <i>Oxypetalum appendiculatum</i> Mart. | BE | Melittophilous ^e | N ^e | Flower | Present |
| <i>Temnadenia violacea</i> (Vell.) Miers | CM | Melittophilous ^a | N ^c | Flower | Present |
| Arecaceae | | | | | |
| <i>Syagrus loefgrenii</i> Glassman | A | Cantharophily ^f | P, N ^f | Inflorescence | Absent |
| Bignoniaceae | | | | | |
| <i>Adenocalymma peregrinum</i> (Miers) L.G.Lohmann | R | Melittophilous ^a | N ^c | Flower | Absent |
| <i>Amphilophium mansoanum</i> (DC.) L.G.Lohmann | A | Melittophilous ^{g, h} | N ^{g, h} | Flower | Present |
| <i>Cuspidaria</i> sp. | BE | Melittophilous ^e | N ^e | Flower | Present |
| <i>Fridericia samydoides</i> (Cham.) L.G.Lohmann | A | Melittophilous ⁱ | N ⁱ | Flower | Present |
| <i>Fridericia speciosa</i> Mart. | A | Melittophilous ⁱ | N ⁱ | Flower | Present |
| <i>Jacaranda caroba</i> (Vell.) DC. | R | Melittophilous ^a | N ^c | Flower | Present |
| <i>Jacaranda rufa</i> Silva Manso | A | Melittophilous ^a | N ^c | Flower | Present |
| <i>Pyrostegia venusta</i> (Ker Gawl.) Miers | A | Ornithophilous ^a | N ^c | Flower | Absent |
| <i>Zeyheria montana</i> Mart | R | Ornithophilous ^a | N ^c | Flower | Present |

| | | | | | | |
|-----------------------|--|----|--------------------------------|-------------------|---------------|---------|
| Caryocaraceae | | | | | | |
| | <i>Caryocar brasiliense</i> A.St.-Hil. | A | Chiropterophilous ^a | N ^c | Flower | Absent |
| Compositae | | | | | | |
| | <i>Bidens gardneri</i> Baker | A | Melittophilous ^a | P, N ^c | Inflorescence | Present |
| | <i>Calea triantha</i> (Vell.) Pruski | A | Generalist ^e | N ^e | Inflorescence | Absent |
| | <i>Chromolaena laevigata</i> (Lam.) R.M.King & H.Rob. | A | Generalist ^a | P, N ^c | Inflorescence | Absent |
| | <i>Emilia fosbergii</i> Nicolson | A | Generalist ^e | N ^e | Inflorescence | Absent |
| | <i>Lessingianthus</i> sp. | A | Generalist ^e | N ^e | Inflorescence | Present |
| | <i>Tridax procumbens</i> (L.) L. | A | Psychophilous ^j | P, N ^j | Inflorescence | Present |
| Convolvulaceae | | | | | | |
| | <i>Ipomoea delphinooides</i> Choisy | CR | Melittophilous ^e | N ^e | Flower | Present |
| | <i>Merremia digitata</i> (Spreng.) Hallier f. | A | Melittophilous ^a | N ^c | Flower | Absent |
| Dilleniaceae | | | | | | |
| | <i>Davilla elliptica</i> A.St.-Hil. | CR | Generalist ^a | P ^c | Flower | Absent |
| Euphorbiaceae | | | | | | |
| | <i>Croton campestris</i> A.St.-Hil. | A | Melittophilous ^e | P, N ^e | Flower | Present |
| Lamiaceae | | | | | | |
| | <i>Salvia minarum</i> Briq. | CM | Melittophilous ^e | N ^e | Flower | Present |
| Leguminosae | | | | | | |
| | <i>Bauhinia rufa</i> (Bong.) Steud. | R | Chiropterophilous ^a | N ^c | Flower | Present |
| | <i>Betencourtia scarlatina</i> (Mart. ex Benth.) L.P.Queiroz | A | Ornithophilous ^k | N ^k | Flower | Present |
| | <i>Calliandra dysantha</i> Benth. | A | Ornithophilous ^l | N ^l | Inflorescence | Absent |
| | <i>Centrosema angustifolium</i> (Kunth) Benth. | A | Melittophilous ^e | N ^e | Flower | Present |
| | <i>Chamaecrista desvauxii</i> var. <i>desvauxii</i> | CR | Melittophilous ^m | P ^m | Flower | Absent |
| | <i>Chamaecrista ramosa</i> (Vogel) H.S.Irwin & Barneby | CR | Melittophilous ^e | P ^e | Flower | Absent |
| | <i>Chamaecrista rotundifolia</i> (Pers.) Greene | CR | Melittophilous ^a | P ^c | Flower | Absent |
| | <i>Copaifera langsdorfii</i> Desf. | A | Melittophilous ^a | N ^c | Flower | Absent |

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|-------------------------|---|----|--------------------------------|-------------------|---------------|---------|
| | <i>Crotalaria micans</i> Link | CM | Melittophilous ⁿ | N ⁿ | Flower | Present |
| | <i>Desmodium subsecundum</i> Vogel | A | Melittophilous ^e | N ^e | Flower | Present |
| | <i>Mimosa lanata</i> Benth. | A | Melittophilous ^e | P ^e | Inflorescence | Absent |
| | <i>Senna rugosa</i> (G.Don) H.S.Irwin & Barneby | CR | Melittophilous ^a | P ^c | Flower | Present |
| | <i>Stylosanthes guianensis</i> (Aubl.) Sw. | R | Melittophilous ^a | N ^c | Flower | Present |
| Lentibulariaceae | | | | | | |
| | <i>Utricularia triloba</i> Benj. | R | Melittophilous ^e | N ^e | Flower | Present |
| Lythraceae | | | | | | |
| | <i>Lafoensia pacari</i> A.St.-Hil.. | A | Chiropterophilous ^o | N ^o | Flower | Present |
| Malpighiaceae | | | | | | |
| | <i>Aspicarpa pulchella</i> (Griseb.) O'Donnell & Lourteig | CR | Melittophilous ^p | O, P ^p | Flower | Absent |
| | <i>Banisteriopsis argyrophylla</i> (A.Juss.) B.Gates | A | Melittophilous ^q | O ^q | Flower | Present |
| | <i>Banisteriopsis campestris</i> (A.Juss.) Little | A | Melittophilous ^a | O, P ^c | Flower | Present |
| | <i>Byrsonima coccolobifolia</i> Kunth | CR | Melittophilous ^a | O ^c | Flower | Present |
| | <i>Byrsonima intermedia</i> A.Juss. | CR | Melittophilous ^a | O, P ^c | Flower | Absent |
| | <i>Janusia guaranitica</i> (A.St.-Hil.) A.Juss. | CR | Melittophilous ^r | O, P ^r | Flower | Absent |
| Malvaceae | | | | | | |
| | <i>Helicteres sacarolha</i> A.St.-Hil., Juss. & Cambess. | A | Ornithophilous ^s | N ^s | Flower | Present |
| | <i>Pavonia</i> sp. | A | Melittophilous ^e | P, N ^e | Flower | Present |
| | <i>Peltaea polymorpha</i> (A. St.-Hil.) Krapov. & Cristóbal | BE | Melittophilous ^e | N ^e | Flower | Present |
| | <i>Sida</i> cf. <i>urens</i> | BE | Generalist ^a | P, N ^c | Flower | Present |
| | <i>Waltheria indica</i> L. | BE | Generalist ^a | N ^c | Intermediate | Absent |
| Melastomataceae | | | | | | |
| | <i>Miconia albicans</i> (Sw.) Triana | A | Melittophilous ^t | P ^t | Flower | Absent |
| | <i>Miconia ligustroides</i> (DC.) Naudin | A | Melittophilous ^a | P ^c | Flower | Absent |
| | <i>Pleroma stenocarpa</i> (DC.) Cogn. | CR | Melittophilous ^e | P ^e | Flower | Present |
| Myrsinaceae | | | | | | |

| | | | | | | |
|-----------------------|--|----|--------------------------------|-------------------|---------------|---------|
| | <i>Myrsine guianensis</i> (Aubl.) Kuntze | A | Generalist ^a | N ^c | Flower | Present |
| Myrtaceae | | | | | | |
| | <i>Eugenia</i> sp. | A | Melittophilous ^e | P ^e | Flower | Absent |
| | <i>Psidium</i> sp. | A | Melittophilous ^{u, v} | P ^{u, v} | Flower | Present |
| Ochnaceae | | | | | | |
| | <i>Ouratea spectabilis</i> (Mart. ex Engl.) Engl. | CR | Melittophilous ^a | P ^c | Flower | Absent |
| Onagraceae | | | | | | |
| | <i>Ludwigia nervosa</i> (Poir.) H.Hara | BE | Melittophilous ^w | P, N ^w | Flower | Absent |
| Orchidaceae | | | | | | |
| | <i>Epistephium sclerophyllum</i> Lindl. | CM | Melittophilous ^a | N ^c | Flower | Present |
| Passifloraceae | | | | | | |
| | <i>Passiflora cincinnata</i> Mast. | CR | Melittophilous ^x | N ^x | Flower | Present |
| Rubiaceae | | | | | | |
| | <i>Borreria tenella</i> (Kunth) Cham. & Schltdl. | A | Generalist ^a | N ^c | Inflorescence | Present |
| | <i>Manettia cordifolia</i> Mart. | A | Ornithophilous ^y | N ^y | Flower | Present |
| | <i>Palicourea rigida</i> Kunth | A | Ornithophilous ^a | N ^c | Flower | Absent |
| | <i>Spermacoce poaya</i> A.St.-Hil. | R | Melittophilous ^a | N ^c | Flower | Absent |
| | <i>Tocoyena formosa</i> (Cham. & Schltdl.) K.Schum. | A | Sphingophilous ^a | N ^c | Flower | Absent |
| Solanaceae | | | | | | |
| | <i>Solanum</i> sp. | A | Melittophilous ^e | P ^e | Flower | Present |
| Styracaceae | | | | | | |
| | <i>Styrax camporum</i> Pohl | A | Melittophilous ^a | N ^c | Flower | Present |
| Turneraceae | | | | | | |
| | <i>Piriqueta aurea</i> (Cambess.) Urb. | BE | Melittophilous ^e | P, N ^e | Flower | Present |
| Verbenaceae | | | | | | |
| | <i>Lantana camara</i> L. | A | Psychophilous ^a | N ^c | Intermediate | Present |
| | <i>Lippia alba</i> (Mill.) N.E.Br. ex Britton & P.Wilson | A | Psychophilous ^e | N ^e | Intermediate | Present |

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|-----------------|--|----|-----------------------------|----------------|---------------|---------|
| | <i>Lippia lasiocalycina</i> Cham. | A | Psychophilous ^a | N ^c | Intermediate | Present |
| | <i>Lippia lupulina</i> Cham. | A | Psychophilous ^a | N ^c | Intermediate | Present |
| | <i>Lippia organoides</i> Kunth | A | Psychophilous ^a | N ^c | Inflorescence | Absent |
| | <i>Lippia stachyoides</i> Cham. | A | Psychophilous ^a | N ^c | Intermediate | Present |
| | <i>Stachytarpheta cayennensis</i> (Rich.) Vahl | A | Melittophilous ^e | N ^e | Flower | Present |
| Vitaceae | | | | | | |
| | <i>Cissus erosa</i> Rich. | CR | Myophilous ^a | N ^c | Flower | Absent |

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Supplementary Table 3. Number (and percentage) of species in each UV category with each pollination system. R = UV-reflecting, A = UV-absorbing, BE = bullseye, CM = contrasting markings on the corolla oriented towards floral resources, CR = contrasting reproductive structures

| Pollination systems | UV-categories | | | | |
|-------------------------|---------------|------------|-----------|-----------|------------|
| | R | A | BE | CM | CR |
| Bee-pollination | 4 (66.6) | 19 (40.4) | 5 (71.4) | 5 (100.0) | 11 (80.0) |
| Generalist-pollination | 0 (0.0) | 9 (17.0) | 2 (28.6) | 0 (0.0) | 1 (6.7) |
| Hummingbird-pollination | 1 (16.7) | 7 (14.9) | 0 (0.0) | 0 (0.0) | 0 (0.0) |
| Beetle-pollination | 0 (0.0) | 1 (2.1) | 0 (0.0) | 0 (0.0) | 1 (6.7) |
| Hawkmoth-pollination | 0 (0.0) | 2 (4.3) | 0 (0.0) | 0 (0.0) | 0 (0.0) |
| Fly-pollination | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 1 (6.6) |
| Butterfly-pollination | 0 (0.0) | 8 (17.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) |
| Bat-pollination | 1 (16.7) | 2 (4.3) | 0 (0.0) | 0 (0.0) | 0 (0.0) |
| Total | 6 (100.0) | 48 (100.0) | 7 (100.0) | 5 (100.0) | 14 (100.0) |

Supplementary Table 4. Post-hoc pairwise comparison performed after asymptotic generalized Pearson chi-squared test of the proportion of pollination modes within each UV category. Similar letters indicate that the UV category presented similar proportion of pollination modes. In bold are the p-values considered significant ($p < 0.05$). R = UV-reflecting, A = UV-absorbing, BE = bullseye CM = contrasting markings on the corolla oriented towards floral resources, CR = contrasting reproductive structures

| Pairwise comparison | p-value |
|-------------------------------------|----------------|
| R ^{AB} - CM ^{AB} | 0.2240 |
| R ^{AB} - CR ^A | 0.3160 |
| R ^{AB} - A ^B | 0.6200 |
| R ^{AB} - BE ^{AB} | 0.2440 |
| CM ^{AB} - CR ^A | 0.3500 |
| CM ^{AB} - A ^B | 0.0686 |
| CM ^{AB} - BE ^{AB} | 0.1900 |
| CR ^A - A ^B | 0.0359 |
| CR ^A - BE ^{AB} | 0.5660 |
| A ^B - BE ^{AB} | 0.0649 |

Supplementary Table 5. Number (and percentage) of species presenting each UV category with each type of floral resource. R = UV-reflecting, A = UV-absorbing, BE = bullseye, CM = contrasting markings on the corolla oriented towards floral resources, CR = contrasting reproductive structures

| Floral resources | UV categories | | | | |
|------------------|---------------|------------|------------|-----------|------------|
| | R | A | BE | CM | CR |
| Nectar | 6 (100) | 39 (70.9) | 7 (70.0) | 5 (100.0) | 3 (15.8) |
| Pollen | 0 (0.0) | 14 (25.5) | 3 (30.0) | 0 (0.0) | 11 (57.9) |
| Oil | 0 (0.0) | 2 (3.6) | 0 (0.0) | 0 (0.0) | 4 (21.0) |
| Tissue | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 1 (5.3) |
| Total | 6 (100.0) | 55 (100.0) | 10 (100.0) | 5 (100.0) | 19 (100.0) |

Supplementary Table 6. Post-hoc pairwise comparison performed after asymptotic generalized Pearson chi-squared test of the proportion of floral resources within each UV category. Similar letters indicate that the UV categories presented similar proportion of floral resources. In bold are the p-values considered significant ($p < 0.05$). R = UV-reflecting, A = UV-absorbing, BE = bullseye CM = contrasting markings on the corolla oriented towards floral resources, CR = contrasting reproductive structures

| Pairwise comparison | p-value |
|-----------------------------------|-----------------------------|
| R ^A - CM ^A | 1 |
| R ^A - CR ^B | 2.44*10⁻³ |
| R ^A - A ^A | 0.146 |
| R ^A - BE ^A | 0.137 |
| CM ^A - CR ^B | 4.56*10⁻³ |
| CM ^A - A ^A | 0.183 |
| CM ^A - BE ^A | 0.171 |
| CR ^B - A ^A | 8.51*10⁻⁶ |
| CR ^B - BE ^A | 4.64*10⁻³ |
| A ^A - BE ^A | 0.881 |

Supplementary Table 7. Number (and percentage) of species presenting each UV category with each type of attraction unit. R = UV-reflecting, A = UV-absorbing, BE = bullseye, CM = contrasting markings on the corolla oriented towards floral resources, CR = contrasting reproductive structures

| Attraction unit | UV categories | | | | |
|-----------------|---------------|------------|-----------|-----------|------------|
| | R | A | BE | CM | CR |
| Flower | 5 (83.3) | 29 (61.7) | 6 (85.7) | 5 (100.0) | 15 (100.0) |
| Inflorescence | 1 (16.7) | 6 (12.8) | 1 (14.3) | 0 (0.0) | 0 (0.0) |
| Intermediate | 0 (0.0) | 12(25.5) | 0 (0.0) | 0 (0.0) | 0 (0.0) |
| Total | 6 (100.0) | 47 (100.0) | 7 (100.0) | 5 (100.0) | 15 (100.0) |

Supplementary Table 8. Post-hoc pairwise comparison performed after asymptotic generalized Pearson chi-squared test of the proportion of attraction unit types within each UV category. Similar letters indicate that the UV categories presented similar proportion of floral resources. In bold are the p-values considered significant ($p < 0.05$). R = UV-reflecting, A = UV-absorbing, BE = bullseye CM = contrasting markings on the corolla oriented towards floral resources, CR = contrasting reproductive structures

| Pairwise comparison | p-value |
|-------------------------------------|----------------|
| R ^{AB} - CM ^{AB} | 0.33800 |
| R ^{AB} - CR ^A | 0.10500 |
| R ^{AB} - A ^B | 0.19200 |
| R ^{AB} - BE ^{AB} | 0.90600 |
| CM ^{AB} - CR ^A | 1 |
| CM ^{AB} - A ^B | 0.10600 |
| CM ^{AB} - BE ^{AB} | 0.37700 |
| CR ^A - A ^B | 0.00699 |
| CR ^A - BE ^{AB} | 0.13400 |
| A ^B - BE ^{AB} | 0.14100 |

Supplementary Table 9. Number (and percentage) of species presenting each UV category with and without non-UV colour patterns. R = UV-reflecting, A = UV-absorbing, BE = bullseye, CM = contrasting markings on the corolla oriented towards floral resources, CR = contrasting reproductive structures

| Presence/ absence of non-UV colour patterns | UV categories | | | | |
|--|----------------------|-------------------|------------------|------------------|-------------------|
| | R | A | BE | CM | CR |
| Presence of non-UV colour pattern | 3 (50.0) | 30 (63.8) | 5 (71.4) | 5 (100.0) | 6 (40.0) |
| Absence of non-UV colour pattern | 3 (50.0) | 17 (36.2) | 2 (28.6) | 0 (0.0) | 9 (60.0) |
| Total | 6 (100.0) | 47 (100.0) | 7 (100.0) | 5 (100.0) | 15 (100.0) |